

ABSTRACT OF THE INVENTION

5 A method of forming a reinforced polymer film structure is disclosed that includes the steps of slitting a biaxially oriented polymer film web having a top face and a bottom face into a first portion and a second portion, identifying the first portion and the second portion, and placing the first portion atop the second portion, such that the bottom face of the first portion is adjacent the top face of the second portion. This
10 structure provides an impact and tear resistant laminate. Also disclosed is a method of forming a polymer film structure by identifying a molecular orientation direction profile of two portions of biaxially oriented polymer film and layering the two portions such that a molecular orientation direction profile of one does not coincide with a molecular orientation direction profile of the other.

15